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APPLICATION NO.	FILING D	ATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/708,191	10/708,191 02/14/2004		Steven Clyde Hill	ARL 04-01	2190
21364	7590 10/19/2005			EXAMINER	
	RESEARCH	LABORATO	DIRAMIO, JACQUELINE A		
ATTN AMSRL CS CC IP 2800 POWDER MILL RD ADELPHI, MD 207831197				ART UNIT	PAPER NUMBER
				1641	

DATE MAILED: 10/19/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		10/708,191	HILL, STEVEN CLYDE			
		Examiner	Art Unit			
		Jacqueline DiRamio	1641			
Period fo	The MAILING DATE of this communication apports reply	ears on the cover sheet with the c	orrespondence address			
WHIC - Exter after - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATES and the may be available under the provisions of 37 CFR 1.13 of SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period we are to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing lied patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1)	Responsive to communication(s) filed on 14 Fe	ebruary 2004.				
'=		action is non-final.				
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under E	·				
Disposit	ion of Claims	•	•			
5) 6) 7)	Claim(s) 1-33 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) is/are rejected. Claim(s) is/are objected to. Claim(s) 1-33 are subject to restriction and/or expressions.	vn from consideration.				
Applicat	ion Papers	•				
9) 10) 	The specification is objected to by the Examiner The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction The oath or declaration is objected to by the Examiner The specification is objected to be specification.	epted or b) objected to by the Edrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
12) [a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau See the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No ed in this National Stage			
Attachmen	et(s)	·				
	ce of References Cited (PTO-892)	4) Interview Summary	· ·			
3) 🔲 Infon	ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) er No(s)/Mail Date	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate ratent Application (PTO-152)			

Application/Control Number: 10/708,191

Art Unit: 1641

DETAILED ACTION

Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- Claims 1 31, drawn to an aerosol-particle analyzer, classified in class
 422, subclass 83 for example.
- II. Claim 32, drawn to an aerosol-particle analyzer, classified in class 422, subclass 83 for example.
- III. Claim 33, drawn to an aerosol-particle analyzer, classified in class 422, subclass 83 for example.

The inventions are distinct, each from the other because of the following reasons:

Inventions I, II and III are independent and patentably distinct. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions have different modes of operation, different functions and different effects.

Group I is an aerosol-particle analyzer requiring an electrodynamic levitator, which is not required by the analyzer of Group II. Group I further requires a PDCS CDAL output and a separate droplet analysis subsystem (DAS), which are not required by the analyzers of Groups II or III.

Group II is an aerosol-particle analyzer requiring a combined particle-dropletcollision and analysis subsystem (PDCAS), which is not required by the analyzer of Application/Control Number: 10/708,191

Art Unit: 1641

Group I. Further, Group II requires that the PDCAS consists of a linear quadrupole (LQ), which holds the CDAL and particles near the LQ axis as they are drawn upward through the LQ by the flow of the gas, and while the particles flow past the CDAL because the CDAL is heavier, so that the particles can combine with the CDAL so that analyte in the CDAL can be measured, which is not required by the analyzers of Groups I or III.

Group III is an aerosol-particle analyzer requiring a combined particle-droplet-collision and analysis subsystem (PDCAS), which is not required by the analyzer of Group I. Further, Group III requires that the PDCAS consists of an electrodynamic levitator, which is not required by the analyzer of Group II.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, and the search required for one group is not required for another, restriction for examination purposes as indicated is proper.

A telephone call was made to Stephen Bloor on October 3, 2005 to request an oral election to the above restriction requirement, but did not result in an election being made.

Application/Control Number: 10/708,191

Art Unit: 1641

8,191 Page 4

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be

traversed (37 CFR 1.143).

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Jacqueline DiRamio whose telephone number is 571-

272-8785. The examiner can normally be reached on M-F 9-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Long Le can be reached on 571-272-0823. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

Jackie DiRamio

Patent Examiner

Art Unit 1641

LONG V. LE

SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 1600

10/14/05